What is claimed is:

- 1. A sheet material for a radio wave absorber comprising a paperboard structure in which corrugated mediums and a planar liner are layered over each other, wherein the corrugated medium and/or the liner are constructed from a sheet including an electrical-loss material.
- 2. The sheet material for a radio wave absorber of claim 1, wherein the electrical-loss material is an electroconductive fiber.
- 3. The sheet material for a radio wave absorber of claim 2, wherein the sheet is mixed paper including the electroconductive fiber.
- 4. The sheet material for a radio wave absorber of claim 3, wherein a ratio (y/p) of maximum electric conductivity (p) of the mixed paper and electric conductivity (y) measured in a direction orthogonal to a measurement direction presenting the maximum electric conductivity (p) is in a range of 0.35 to 0.95.
- 5. The sheet material for a radio wave absorber of any of claims 1 to 4, wherein the paperboard structure is one selected from single faced paperboard, double faced paperboard, double wall paperboard and triple wall.
- 6. The sheet material for a radio wave absorber of any of claims 1 to 5, wherein thickness per a layer of the paperboard structure is 1 to 5 mm.
- 7. The sheet material for a radio wave absorber of any of claims 1 to 6, wherein the take up ratio of the corrugated medium to the liner of the paperboard structure is in a range of 1.2 to 2 times, and the interval between tops of adjacent corrugated mediums is in a range of 1 to 15 mm.
- 8. The sheet material for a radio wave absorber of any of claims 3 to 7, wherein the electroconductive fiber is a carbon fiber, an average fiber length of the carbon fiber is 1 to 60 mm and a mixing ratio in the mixed paper is

0.08 to 20 wt %.

- 9. The sheet material for a radio wave absorber of claim 8, wherein a content of sizing agent adhered to the carbon fiber is not more than 0.9 wt % of total carbon fiber weight.
- 10. The sheet material for a radio wave absorber of any of claims 1 to 9, wherein at least one selected from printing of colors, patterns or letters, or, embossing of patterns or letters is applied to an outside surface of the liner.
- 11. A radio wave absorber, wherein the sheet material for a radio wave absorber of any of claims 1 to 10 is cut, folded, and assembled into a hollow three-dimensional structure body, which has a shape of wedge, polygonal pyramid, or polygonal cylinder.
- 12. A radio wave absorber, wherein, inside of the hollow three-dimensional structure body of claim 11, one or more of the sheet material for a radio wave absorber of any of claims 1 to 10 is arranged parallel to a bottom surface of the radio wave absorber.
- 13. A radio wave absorber of which the hollow three-dimensional structure body of claim 11 has a pyramidal form, wherein the sheet material for a radio wave absorber of any of claims 1 to 10 is formed into an isosceles triangle plate two sides of which are along an inner wall of the radio wave absorber to match with each other at a right angle, and the other side of which is arranged perpendicularly to the bottom surface of the radio wave absorber.
- 14. A radio wave absorber of which the hollow three dimensional structure body of claim 11 has a wedge form, wherein, inside of the radio wave absorber, the sheet material for a radio wave absorber of any of claims 1 to 10 is formed into an isosceles triangle plate two sides of which are along an inner wall of the radio wave absorber to arrange one or more plates

perpendicularly to a ridge line of wedge.

- 15. The radio wave absorber of claim 11, wherein the sheet material for a radio wave absorber of any of claims 1 to 10 has paired insert slits and insert flaps, and the hollow three dimensional structure body is assembled by inserting the insert flap into the insert slits not to deform the shape.
- 16. The radio wave absorber of any of claims 11 to 14, wherein the hollow three-dimensional structure body is erected on a sintered ferrite plate.
- 17. The radio wave absorber of any of claims 11 to 14, wherein the hollow three-dimensional structure body is erected on a pedestal where the sheet material for a radio wave absorber of any of claims 1 to 10 is layered over in one or more layers.
- 18. The radio wave absorber of any of claims 11 to 14, wherein the pedestal is formed by layering on a reflective flat plate one or more sheet material layers for the radio wave absorber of any of claims 1 to 10 where at least the corrugated medium is formed from a sheet including the electrical-loss material, and the hollow three-dimensional structure body is erected on the pedestal.
- 19. The radio wave absorber of claim 17 or 18, wherein two or more layers of the sheet material for a radio wave absorber are layered over so that a corrugated row direction of the corrugated medium crosses each other among the layers.